

What is claimed:

1. A coating tool containing an oily ink and a backflow
inhibiting material which contacts with said oily
ink and which moves following fluidity of said oily
5 ink in an ink containment tube, wherein said backflow
inhibiting material consists of at least one base
material component selected from the group of
diglycerin /ethylene oxide adducts and
diglycerin/propylene oxide adducts and a gel
10 composition which comprises polyacrylic acid, and
the above mentioned polyacrylic acid is contained
in 0.1 to 3 wt % with respect to the total amount
of said backflow inhibiting material.
2. The coating tool as set forth in claim 1, wherein
15 said polyacrylic acid comprises polyacrylic acid
whose average molecular weight is not less than
1,000,000.
3. The coating tool as set forth in claim 2, further
comprising microparticle silica and as said
20 polyacrylic acid, composed of a plurality of
polyacrylic acid with different average molecular
weight and comprising polyacrylic acid whose average
molecular weight is not greater than 2,000,000.
4. The coating tool as set forth in claim 2, further
25 comprising microparticle silica and as said

polyacrylic acid, composed of a plurality of polyacrylic acid with different average molecular weight and comprising polyacrylic acid whose average molecular weight is not greater than 2,000,000 and polyacrylic acid whose average molecular weight is not greater than 1,500,000.

5. The coating tool as set forth in claim 1, wherein said base material component is contained in 87 to 99.9 wt % with respect to the total amount of said backflow inhibiting material.

6. The coating tool as set forth in claim 1, wherein said backflow inhibiting material contains microparticle silica in 1 to 10 wt % with respect to the total amount of the backflow inhibiting material.

7. The coating tool as set forth in claim 1, wherein viscosity of said oily ink is not less than $700 \text{ mPa} \cdot \text{s}$ when the shearing rate is 0.1 (1/s) and not greater than $500 \text{ mPa} \cdot \text{s}$ when the shearing rate is 100 (1/s) .

8. The coating tool as set forth in claim 1, wherein said oily ink comprises at least either of aliphatic hydrocarbon-based solvent or alicyclic hydrocarbon-based solvent.

9. The coating tool as set forth in claim 1, wherein said ink containment tube has a boundary which

contacts with said oily ink and said backflow and at least comprising polyvinyl alcohol among polyvinyl alcohol and fluorine-based surfactant.

10. The coating tool as set forth in claim 9, wherein
5 said surfactant is composed of a coating layer formed on an inner wall surface of said ink containment tube and at least polyvinyl alcohol among said polyvinyl alcohol and fluorine-based surfactant in said coating layer.

10 11. The coating tool as set forth in claim 9, comprising polyvinyl alcohol and fluorine-based surfactant in said boundary.

12. The coating tool as set forth in claim 9, wherein
15 said polyvinyl alcohol comprises one or more ionic polyvinyl alcohol selected from a nonionic group, a cationic group, and an anionic group.

13. The coating tool as set forth in claim 9, wherein
20 said fluorine-based surfactant comprises one or more ionic fluorine-based surfactant selected from the nonionic group, the cationic group, and the anionic group.

14. The coating tool as set forth in claim 9, wherein
25 said fluorine-based surfactant comprises ionic fluorine-based surfactant and said polyvinyl alcohol comprises modified polyvinyl alcohol which has

opposite ionicity to that of said surfactant.

15. The coating tool as set forth in claim 14, wherein
said polyvinyl alcohol is a cationic modified polyvinyl
alcohol and said fluorine-based surfactant is an
5 anionic fluorine-based surfactant or said polyvinyl
alcohol is an anionic modified polyvinyl alcohol, and
said fluorine-based surfactant is a cationic
fluorine-based surfactant.

10 16. The coating tool as set forth in claim 9, wherein
said ink containment tube is made up of a resin selected
from a group of a nylon resin, a polyethylene
terephthalate resin, and a polybutylene
terephthalate resin.

15 17. The coating tool as set forth in claim 9, wherein
said oily ink comprises a colorant, a resin, an organic
solvent, and a gelling agent.

18. The coating tool as set forth in claim 17, wherein
said colorant comprises titanium oxide.

20 19. The coating tool as set forth in claim 9, wherein
said oily ink comprises at least either of organic
solvent of aliphatic hydrocarbon-based solvent or
alicyclic hydrocarbon-based solvent.

25 20. The coating tool as set forth in claim 17, wherein
the above mentioned gelling agent is a dissoluble
gelling agent whose solubility (20°C) to the above

mentioned organic solvent is 0.1 to 20 wt % and the ink viscosity is not less than 700mPa · s when the shearing rate is 0.1 (1/s) and the ink viscosity is not greater than 500mPa · s when the shearing rate is 100 (1/s).

21. The coating tool as set forth in claim 17, wherein the oily ink comprises a metal soap as a gelling agent and at least either of aliphatic hydrocarbon -based solvent or alicyclic hydrocarbon-based solvent as organic solvent.

22. The coating tool containing an oily ink and a backflow inhibiting material which contacts with said oily ink, wherein the above mentioned ink containment tube is made up of a resin selected from the group of a nylon resin, a polyethylene terephthalate resin, and polybutylene terephthalate resin, the above mentioned ink containment tube has a boundary which contacts with said oily ink and said backflow inhibiting material, polyvinyl alcohol and fluorine-based surfactant is contained in said surfactant, ionic fluorine-based surfactant is contained as said fluorine-based surfactant, modified polyvinyl alcohol which has opposite ionicity to that of said surfactant is contained as said polyvinyl alcohol, said oily ink comprises a

colorant, a resin, an organic solvent and a gelling agent, and at least either of aliphatic hydrocarbon-based solvent or alicyclic hydrocarbon-based solvent is comprised as said organic solvent, and
5 a metal soap is comprised as said gelling agent, said backflow inhibiting material comprises at least one base material component selected from the group of diglycerol/ethylene oxide adducts and diglycerol/propylene oxide adducts and a gelling
10 composition comprising polyacrylic acid, and the above mentioned polyacrylic acid is contained in 0.1 to 3 wt % with respect to the total amount of said backflow inhibiting material.

23. The coating tool containing at least an oily ink in
15 an ink containment tube, wherein the above mentioned ink containment tube has a boundary which contacts at least with said oily ink, and at least polyvinyl alcohol among polyvinyl alcohol and fluorine-based surfactant is contained.

20 24. The coating tool as set forth in claim 1, having a pen tip at one end of said ink containment tube and having a pressure device which pressurizes at least an oily ink contained in said ink containment tube at the other end.

25 25. The coating tool as set forth in claim 21, wherein

the above mentioned metal soap is aluminum 2-ethylhexanoate.

26. The coating tool as set forth in claim 22, wherein the above mentioned metal soap is aluminum 2-ethylhexanoate.

27. A backflow inhibiting material for an oily ink made up of at least one base material component selected from the group of diglycerol/ethylene oxide adducts and diglycerol/propylene oxide adducts and a gelling agent comprising a polyacrylic acid whose average molecular weight is not less than 1,000,000, wherein the above mentioned polyacrylic acid is contained in 0.1 to 3 wt % with respect to the total amount of said backflow inhibiting material.

28. A backflow inhibiting material for an oily ink made up of at least one base material component selected from the group of diglycerol/ethylene oxide adducts and diglycerol/propylene oxide adducts and a gelling agent comprising microparticle silica, polyacrylic acid whose average molecular weight is not less than 2,000,000 and polyacrylic acid whose average molecular weight is not greater than 1,500,000, and the above mentioned polyacrylic acid is contained in 0.1 to 3 wt % with respect to the total amount of said backflow inhibiting material.

29. An ink containment tube has in fact antndary which contacts at least with an oily ink, and at least polyvinyl alcohol is comprised among polyvinyl alcohol and fluorine-based surfactant.